

IN THE CLAIMS

The following claims are presented for examination:

1. **(Currently Amended)** An apparatus comprising:
a needle/catheter module, wherein the needle/catheter module comprises:
 - a needle;
 - a catheter, wherein said catheter receives said needle, **and wherein at least one of said needle or said catheter comprise a bevel;**
 - a sensor, wherein said sensor senses an **orientation** angle-of-rotation of at least one of said needle and said catheter about a roll axis that is aligned with a length of said needle **the bevel; and**
 - pseudo skin, wherein said pseudo skin comprises an opening for receiving said needle and said catheter.**
2. – 3. **(Canceled)**
4. **(Previously Presented)** The apparatus of claim 1 further comprising:
 - a receiver for receiving at least one of said needle and said catheter, wherein said receiver is disposed underneath said pseudo skin and covered by said pseudo skin.
5. **(Original)** The apparatus of claim 1 wherein said sensor is physically coupled to said needle.
6. **(Currently Amended)** The apparatus of claim 1 further comprising a data processing system that receives a signal that is indicative of said ~~angle-of-rotation~~ **orientation of said bevel.**
7. **(Canceled)**
8. **(Previously Presented)** The apparatus of claim 4 further comprising a housing, wherein said receiver is disposed within said housing, and wherein said pseudo skin is substantially co-planar with a surface of said housing.
9. **(Canceled)**

10. (Previously Presented) The apparatus of claim 1 further comprising:
a force-feedback assembly, wherein at least one of said needle and said catheter detachably couples to said force-feedback assembly.

11. (Canceled)

12. (Currently Amended) An apparatus comprising:
pseudo skin;
a force-feedback assembly, wherein said force-feedback assembly is disposed beneath and is at least partially covered by said pseudo skin; and
an end effector, wherein said end effector passes through said pseudo skin to reversibly couple to said force-feedback assembly, and further wherein said end effector comprises a needle catheter module, wherein said needle-catheter module includes:
a needle;
a catheter, wherein said catheter receives said needle, and wherein an end of at least one of said needle or said catheter comprises a bevel; and
a sensor, wherein said sensor senses an orientation of said bevel.

13. – 14. (Canceled)

15. (Original) The apparatus of claim 12 further comprising a data processing system, wherein said force-feedback assembly receives a control signal from said data processing system.

16. (Original) The apparatus of claim 15 wherein signals that are indicative of a position of said end effector are transmitted to said data processing system.

17. (Previously Presented) The apparatus of claim 12 further comprising a housing, wherein said force-feedback assembly is disposed within said housing and wherein said pseudo skin is substantially co-extensive with a surface of the housing.

18. (Canceled)

19. (Currently Amended) The apparatus of claim ~~18~~ **12** further comprising a data processing system, wherein said data processing system receives a signal that is indicative of said orientation of said bevel.

20. – 28. (Canceled).